69 Studies on isobutyric acid-producing bacteria in silage
GIOVANNA SUZZI, L. GRAZIA & G. FERRI

73 Bacteria in the gular and paracloacal glands of the American alligator (*Alligator mississippiensis*; Reptilia, Crocodilia)
P. A. WILLIAMS, W. MITCHELL, G. R. WILSON & P. J. WELDON

77 Serotypes and pyocin types of *Pseudomonas aeruginosa* isolated from natural waters
A. DE VICENTE, J. C. CODINA, E. MARTINEZ-MANZANARES, M. AVILES, J. J. BORREGO & P. ROMERO

81 Xanthan production by some *Xanthomonas* isolates
B. TORRESTIANA, L. FUCIKOVSKY & E. GALINDO

85 Patterns of tolerance to heavy metals among methane-utilizing bacteria
J. P. BOWMAN, L. I. SLY & A. C. HAYWARD

89 Biosynthesis of biotin vitamers by *Yarrowia lipolytica*
B. M. PEARSON, L. J. FULLER & R. A. MCKEE

93 Anti-microbial activity of smoke from different woods
A. O. ASITA & I. A. CAMPBELL

97 The synergistic inhibition of *Campylobacter jejuni* by rifampicin and hydrogen peroxide
T. J. HUMPHREY

101 An *in vivo* method for assessing the antimicrobial properties of topical antiseptics using artificially contaminated skin
D. N. PAYNE & S. EDDOWES

105 Heterogeneity within *Fusobacterium nucleatum*, proposal of four subspecies
S. E. GHARBIA & H. N. SHAH

No. 3

109 *A Review:* COSHH and the microbiologist
C. H. COLLINS

113 Rapid enumeration of viable *Legionella pneumophila* serogroup 1
G. VESEY, A. NIGHTINGALE, D. JAMES, D. L. HAWTHORNE & J. S. COLBOURNE

117 The enumeration of sublethally injured populations of *Staphylococcus aureus* in foods
P. VAN NETTEN, J. VAN DER VEN, F. JAISLI & D. A. A. MOSSEL

123 Comparison between *Rhizobium galagae* and *Rhizobium meliloti* plasmid contents
S. SELENSKA-TRAJKOWA, G. RADEWA & K. MARKOV

127 Rhizobia and bradyrhizobia under salt stress: possible role of trehalose in osmoregulation
E. A. E. ELSHEIKH & M. WOOD

131 Whole cell fatty acid patterns of *Xenorhabdus* species
J. D. JANSE & P. H. SMITS

137 Contents of amino acids in *Tricholoma giganteum*
T. FUJITA, H. KUMORI, S. KOMEMUSHI & K. YAMAGATA

141 DNA fingerprinting of the mosquito pathogen *Bacillus sphaericus* with M13 DNA as a probe
A. N. ABADJIEVA, R. T. GRIGOROVA & V. I. MITEVA

145 Changes in *Myxococcus xanthus* pigments induced by phosphate and temperature
F. GONZALEZ, M. ANGELES GOICOECHEA, J. M. ARIAS & E. MONTOYA

151 Use of a modified cupric acetate method for the detection and quantitation of xylanolytic activities: a comparative study with the congo red method
N. CAPALASH, P. SHARMA & K. G. GUPTA

No. 4

155 An appraisal of bioassay methods for the detection of mycotoxins—a review
A. E. BUCKLE & M. F. SANDERS

161 The use of tissue culture for the detection of mycotoxins
JEAN ROBB, MARY NORVAL & W. A. NEILL

167 Aflatoxin monoclonals: academic development to commercial production
A. A. G. CANDLISH, J. E. SMITH & W. H. STIMSON

171 An improved formulation and method of preparation of crystal violet pectate medium for detection of pectolytic erwinia
E. J. WOODWARD & K. ROBINSON
175 Comparative study of acid and alkaline phosphatase during the autolysis of filamentous fungi
F. REYES, P. VILLANUEVA & C. ALFONSO
179 Development of an optimized system for electroporation of *Listeria* species
JANET E. ALEXANDER, P. W. ANDREW, DOROTHY JONES & I. S. ROBERTS
183 Microbial growth on peptones from fish industrial wastes
SUSAN E. VECHT-LIFSHITZ, K. A. ALMAS & E. ZOMER
187 The present level of aflatoxin in Nigerian groundnut cake ('kulikuli')
D. A. AKANO & O. O. ATANDA
191 Book reviews

No. 5

193 Evaluation of methods for the enumeration of *Campylobacter jejuni* and *Campylobacter coli* bacteriophages
S. SALAMA, F. J. BOLTON & D. N. HUTCHINSON
197 Production of β-glucosidase (cellobiase) by *Curvularia* sp.
U. C. BANERJEE
201 Identification of a bactericidal component active against Gram-positive and Gram-negative bacteria in commercial ovomucoid and ovoinhibitor as lysozyme
A. PELLEGRINI, K. GROB & R. VON FELLENBERG
205 Reduced aflatoxin production by *Aspergillus parasiticus* after growth on a caffeine-containing medium
M. O. MOSS, F. BADII & M. N. CLIFFORD
209 An improved method for rapid isolation of plasmid DNA from wild-type Gram-negative bacteria for plasmid restriction profile analysis
J. E. OLSEN
213 Antagonistic activity of *Rhizobium* spp. against beneficial and plant pathogenic fungi
W.-L. CHAO
217 Phenolic extract from olives: inhibition of *Staphylococcus aureus*
G. J. E. NYCHAS, SOULA C. TASSOU & R. G. BOARD

No. 6

221 *A Review: Salmonella* control in poultry by 'competitive exclusion' or immunization
G. C. MEAD & P. A. BARROW
229 Measurement of growth of bifidobacteria on inulofructosaccharides
H. YAMAZAKI & N. DILAWRI
233 A note on the use of microwaves in an improved non-radioactive DNA hybridization procedure for the detection of bacteria in foodstuffs
CAROLYN EVANS & K. J. TOWNER
237 The invasive potential of *Salmonella enteritidis* phage types for young chickens
M. HINTON, E. J. THRELFALL & B. ROWE
241 Production of monoclonal antibodies to *Pseudomonas syringae* pv. *phaseolicola* and *Xanthomonas campestris* pv. *phaseoli*
W. C. WONG
245 Rapid detection of *Salmonella* from poultry meat products using the '1.2. Test®'
F. HUMBERT, G. SALVAT, F. LALANDE, P. COLIN & C. LAHELLEC
251 Heat resistance of *Listeria*: strain differences and effects of meat type and curing salts
B. M. MACKEY, C. PRITCHET, A. NORRIS & G. C. MEAD
257 Computer-aided identification of lactic acid bacteria using the API 50 CHL system
R. P. COX & J. K. THOMSEN
261 Book reviews
265 Index